

VOLVO CONSTRUCTION EQUIPMENT MATRIS REPORT

Machine model A40G	SerialNo 341464	Operating Hours 5655.1	Reading Date 17/09/2019
Company name volvo	Dealer	Report Issuer	
Contact name	Technician arnold	Primary Application Industry material handling	
Site	Workorder	Ground Condition	

MATRIS Reading, Summary / Recommendation

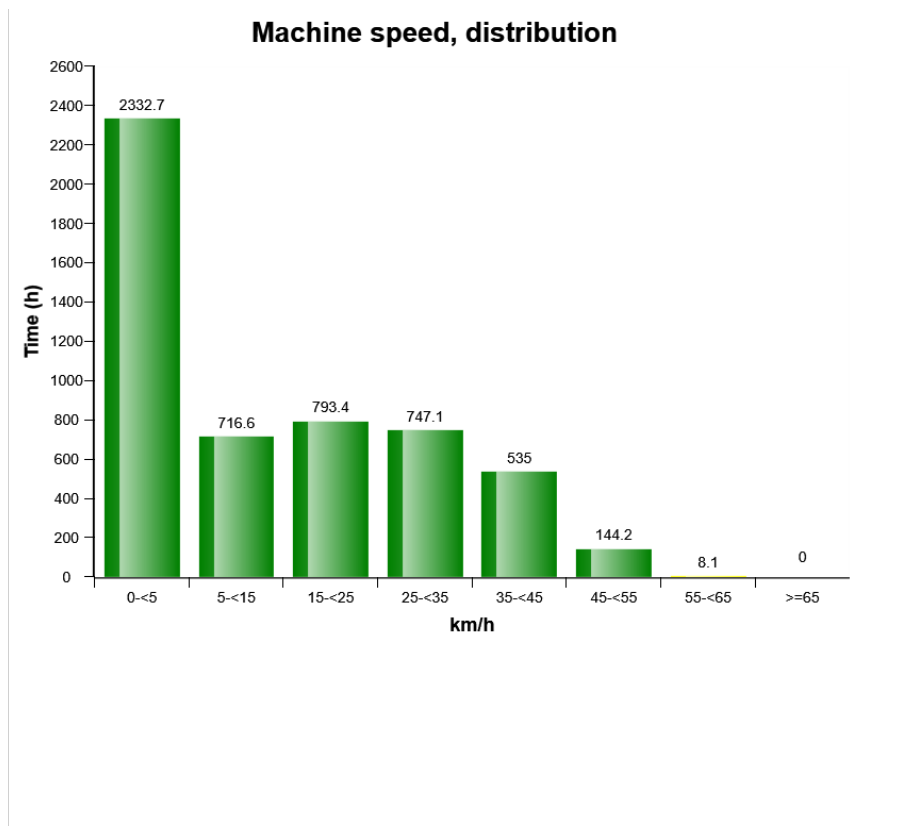


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Main equipment	Type	Equipment
	Tyre size/class	Sold without tyres
	Body extensions	Not mounted
	Tail-gate	Not mounted
	Extra spillguard	Not mounted
	Wear plates	Not mounted
	Pattern	None



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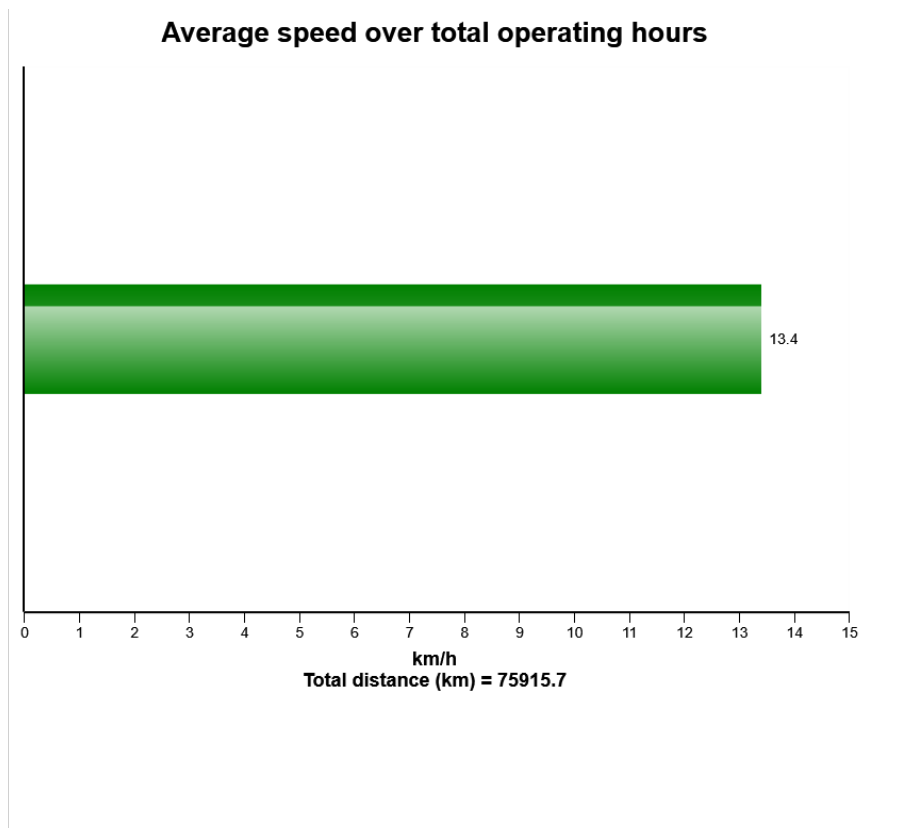


The presentation shows the time in hours in speed-intervals for the vehicle

Note that the interval 0-5 km/h includes machine not in motion. If the machine has been operated above 55 km/h there is a risk of engine over speed.



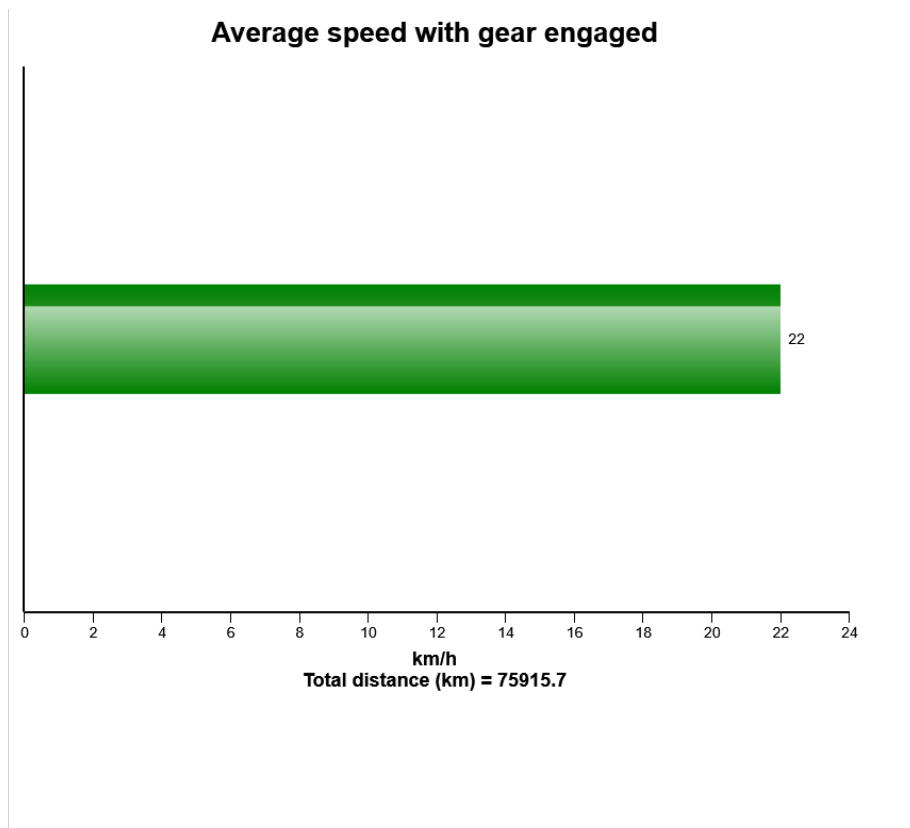
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



The diagram shows the machines average speed based on the total operating hours.



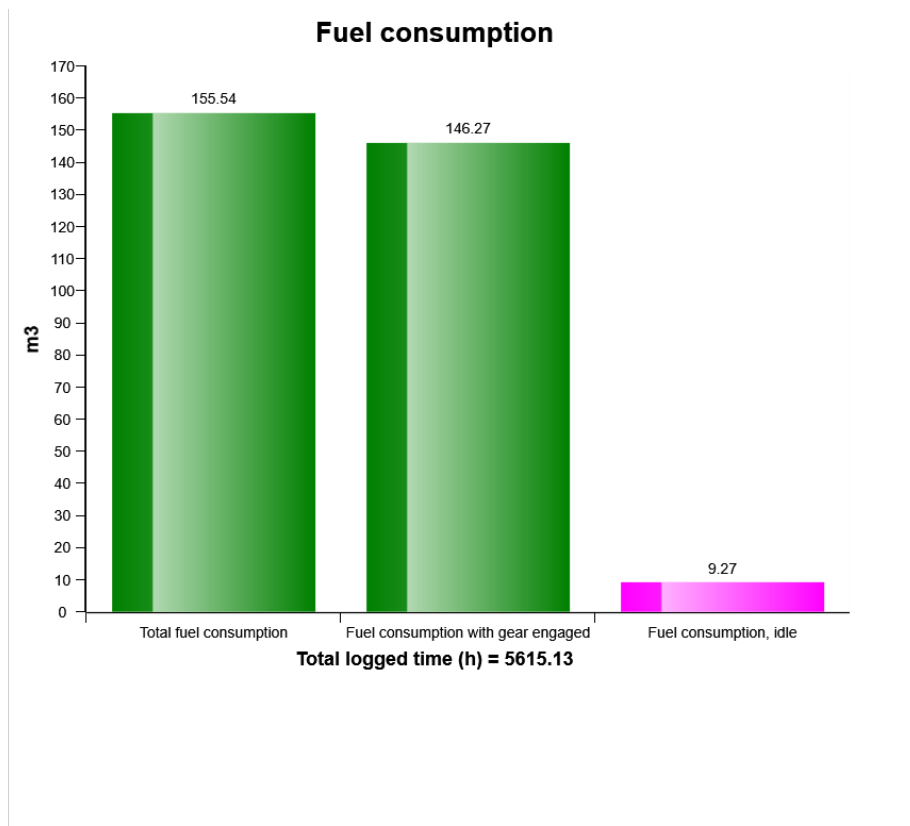
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



The diagram shows the machines average speed based on the operating hours with gear engaged.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

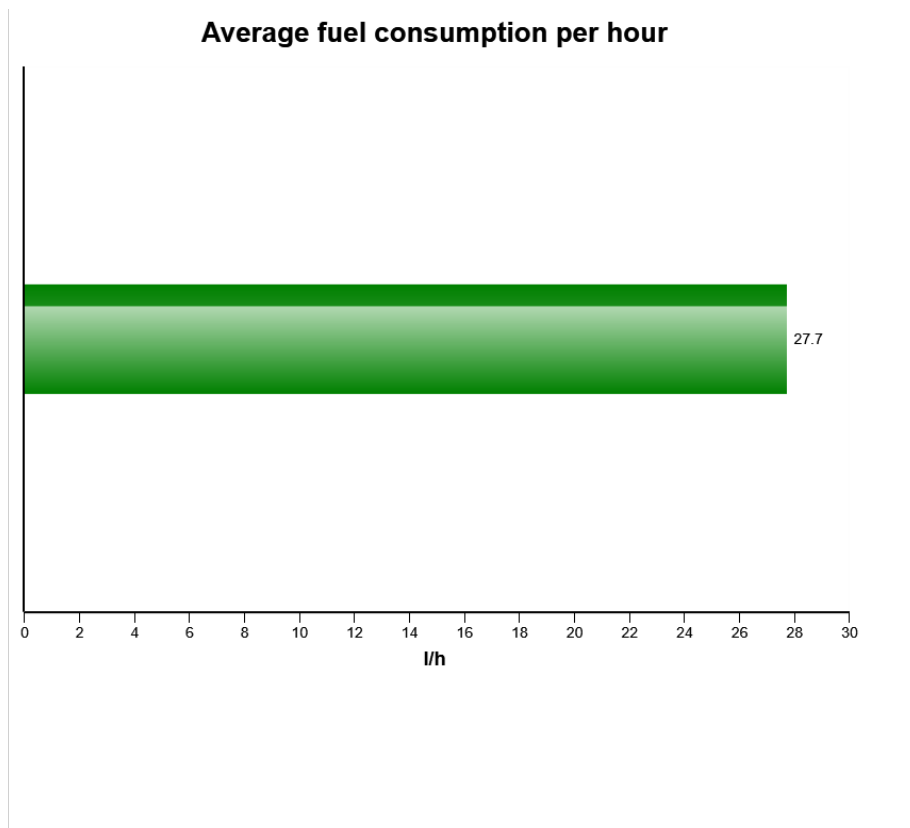


The diagram shows the total fuel consumption, fuel consumption with gear engaged and fuel consumption during idle.

High fuel consumption during idle can indicate that the machine is not fully utilized.



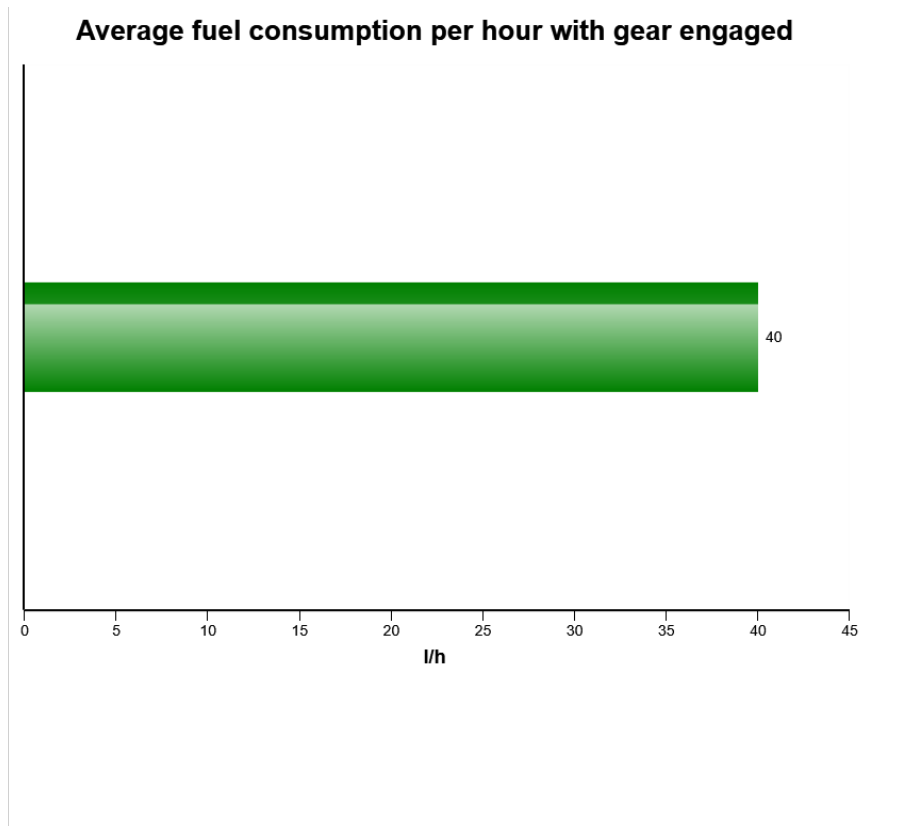
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



The diagram shows the average fuel consumption based on total operating hours.



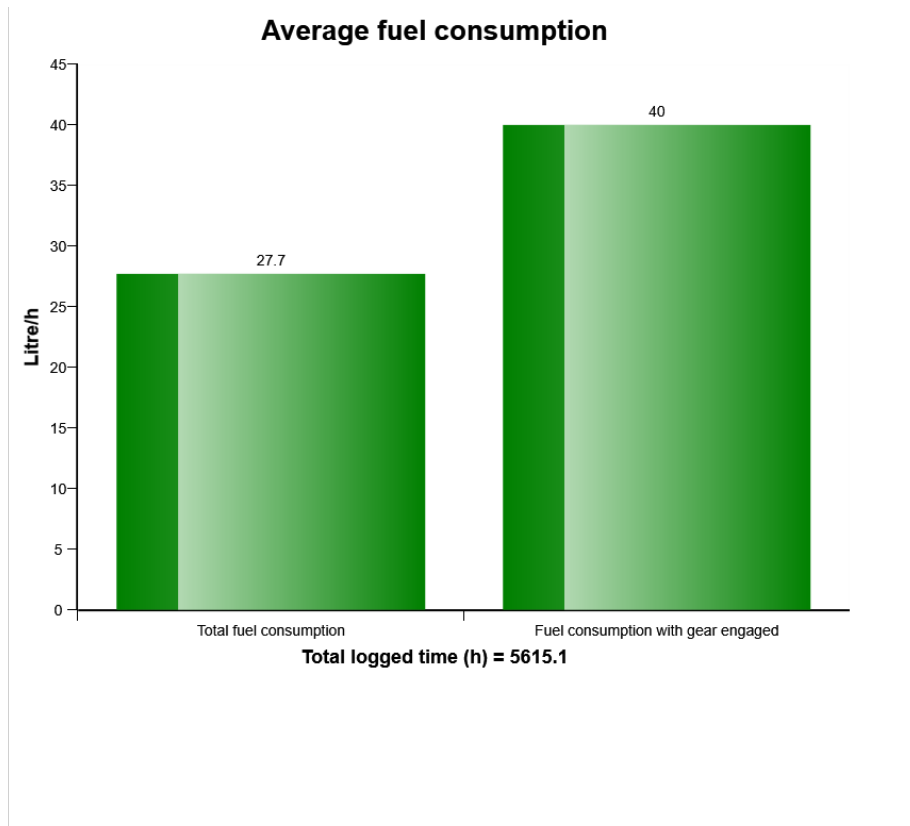
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



The diagram shows the average fuel consumption based on the operating hours with gear engaged.



Machine model	SerialNo	Operating Hours	Reading Date
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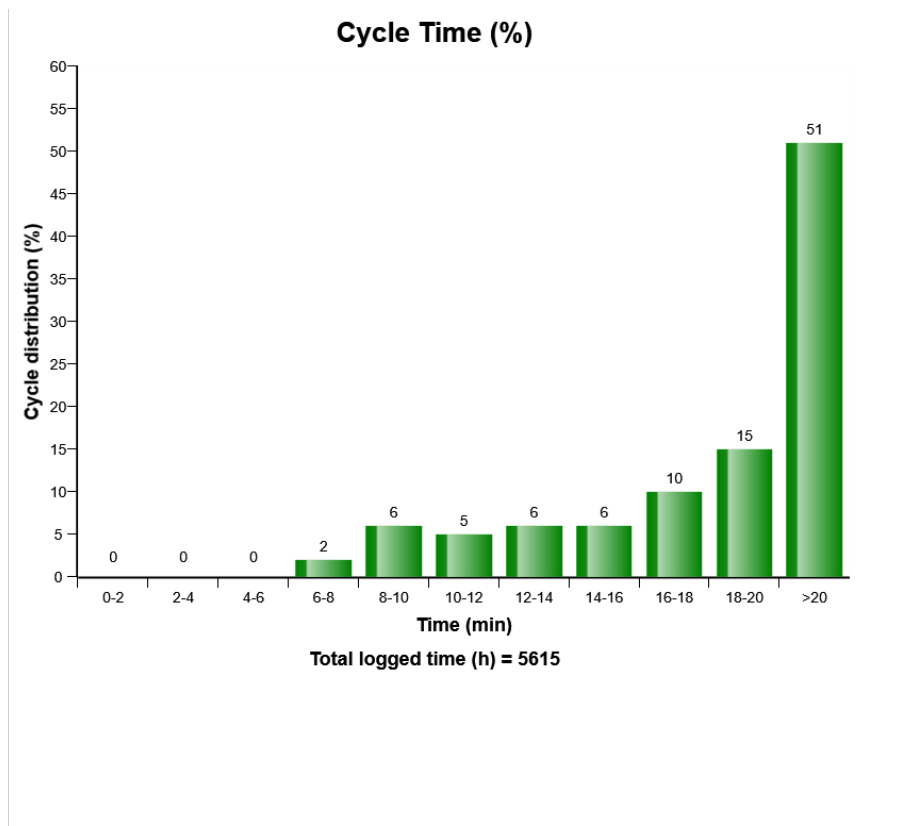


The diagram shows the total average fuel consumption versus average fuel consumption with gear engaged.

Big difference between the bars can indicate that the machine is not fully utilized, high idle lowers the total average fuel consumption.



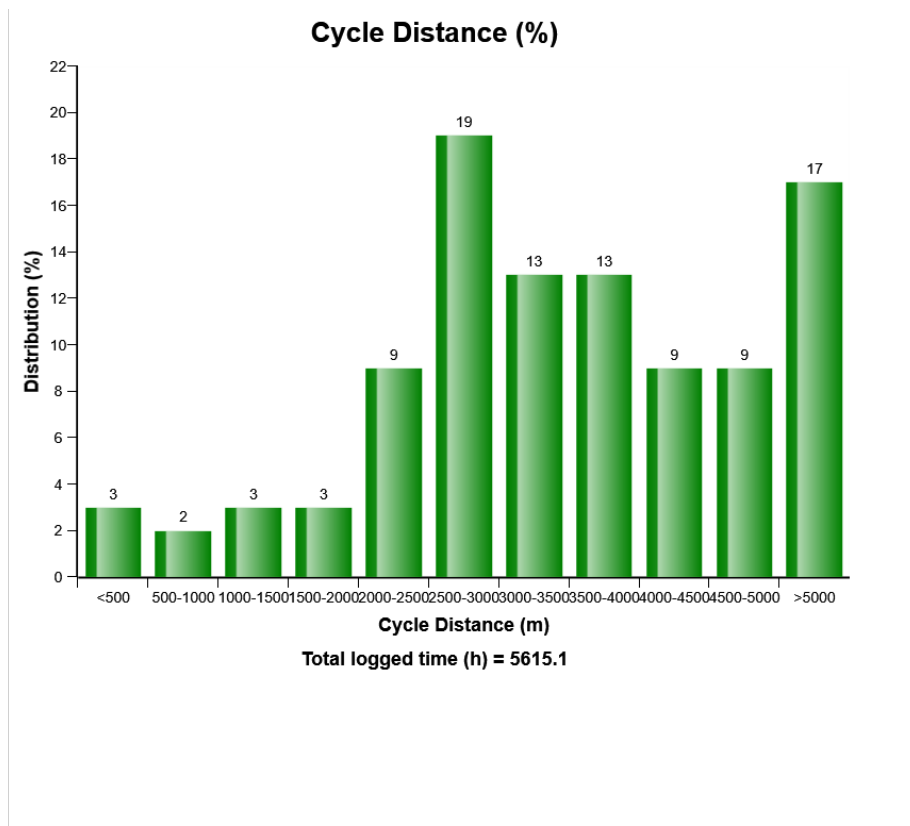
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The diagram shows the distribution of the working cycle time. The time between 2 valid cycle registrations is registered. Time starts from lifting the body.



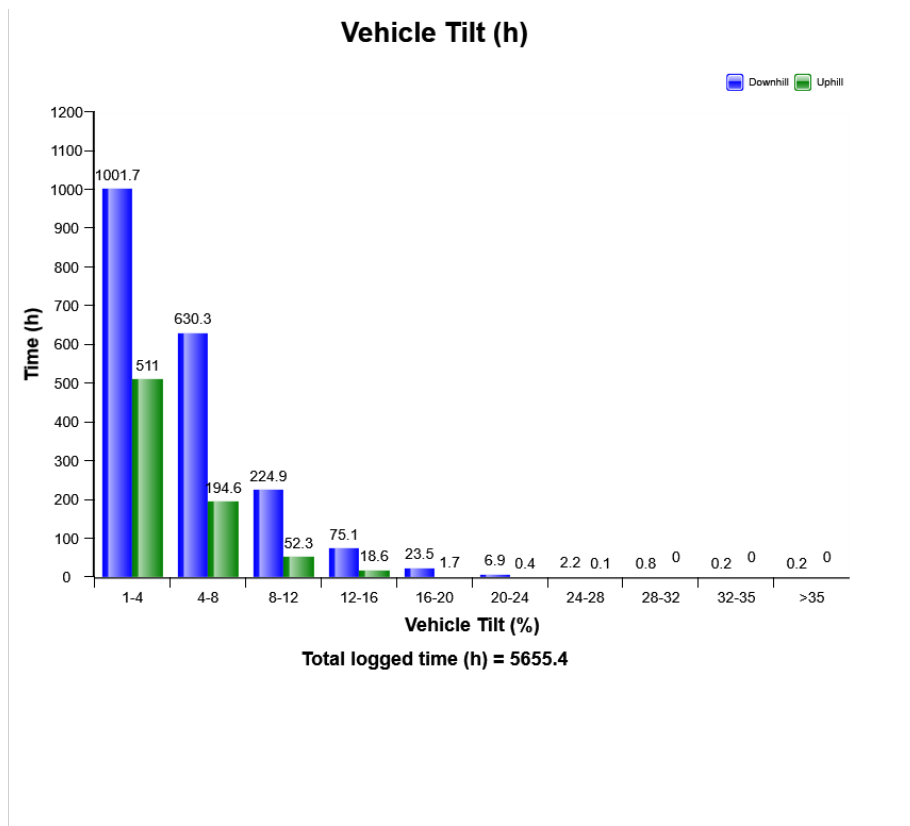
Machine model	SerialNo	Operating Hours	Reading Date
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The diagram shows the distribution of the working cycle distance. The distance driven between 2 valid cycle registrations.



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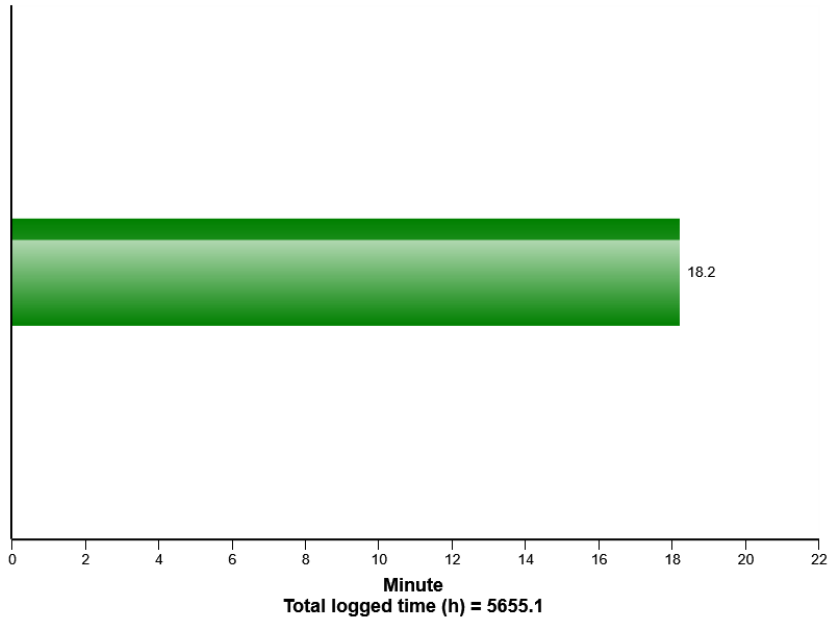


The diagram shows the distribution of the longitudinal tilt in percent (not degrees), the criteria to get registrations is that the vehicle speed exceeds 1km/h (0,62mph) and that the engine is on.

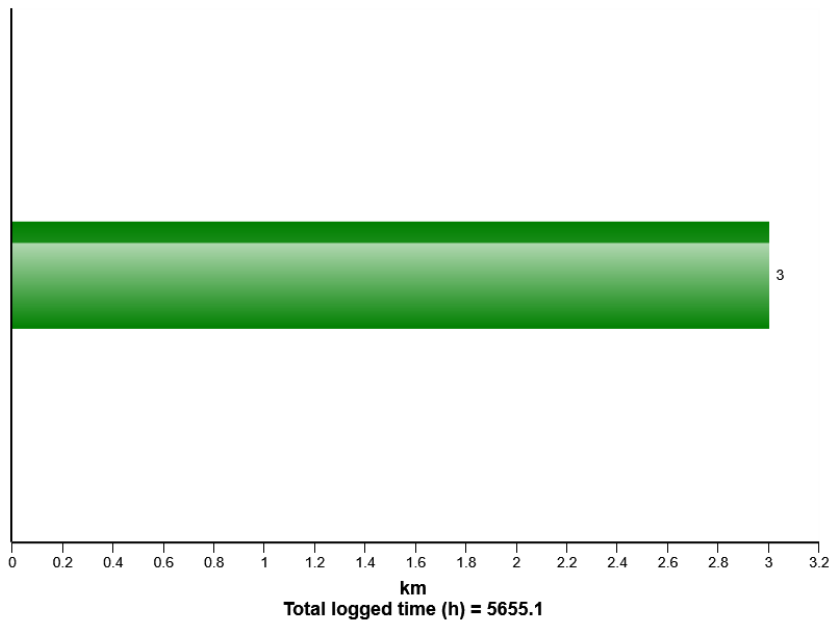


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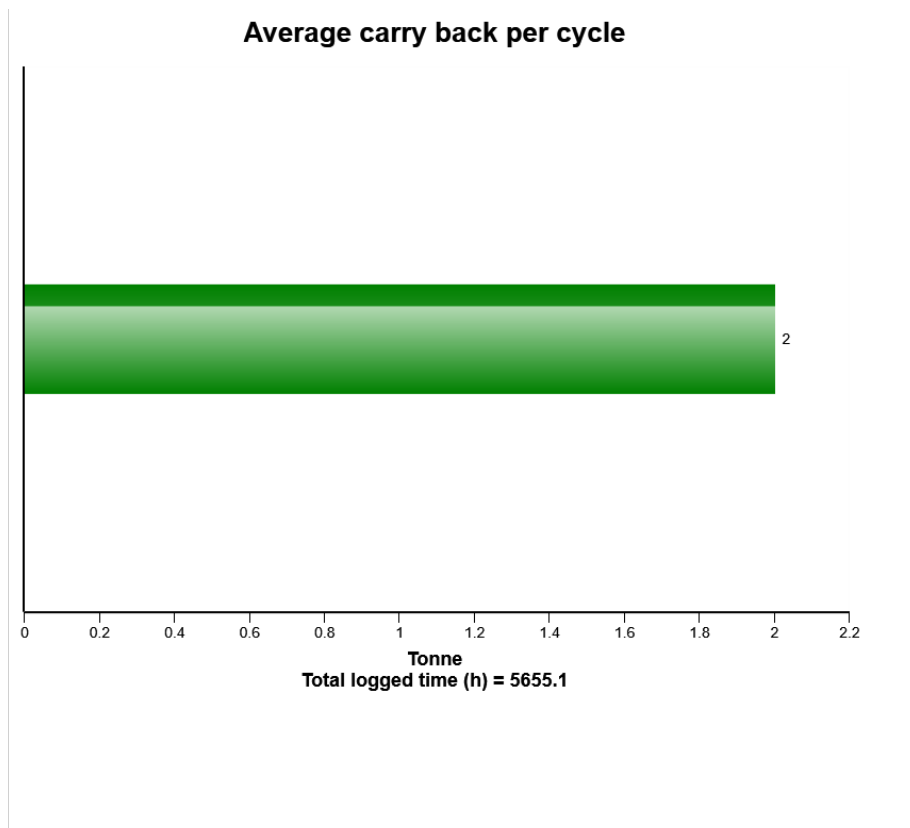
Average cycle time



Average cycle distance



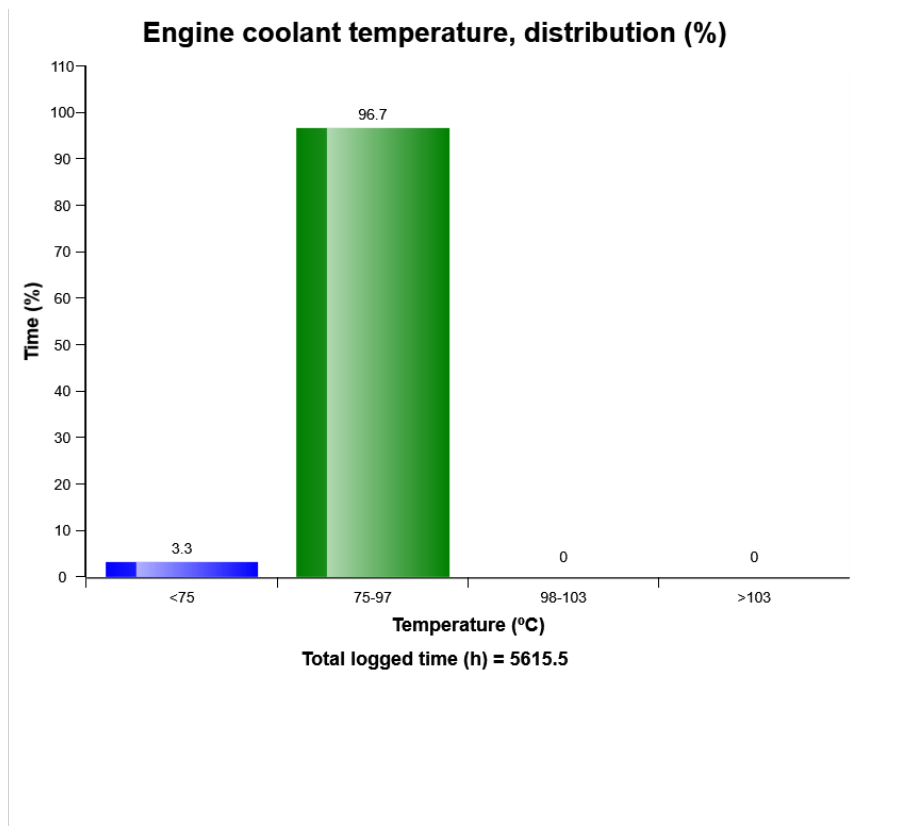
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A40G	341464	5655.1	17/09/2019



An error has occurred while processing HtmlTextBox 'htmlTextBox1':
 'WordSection1' is an unexpected token. The expected token is "" or ". Line 1, position 18.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



Definition:

The graph shows the time distribution of the temperature, while engine running.

Explanation:

Y-axis: Time

X-axis: Temperature distribution in classes.

Blue bar = Warm-up phase.

During the engine warm-up phase, this temperature region is passed.

It is normal to have registrations in this region.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

Green bar = Normal working temperature. The Major part of the registrations shall be in this region.

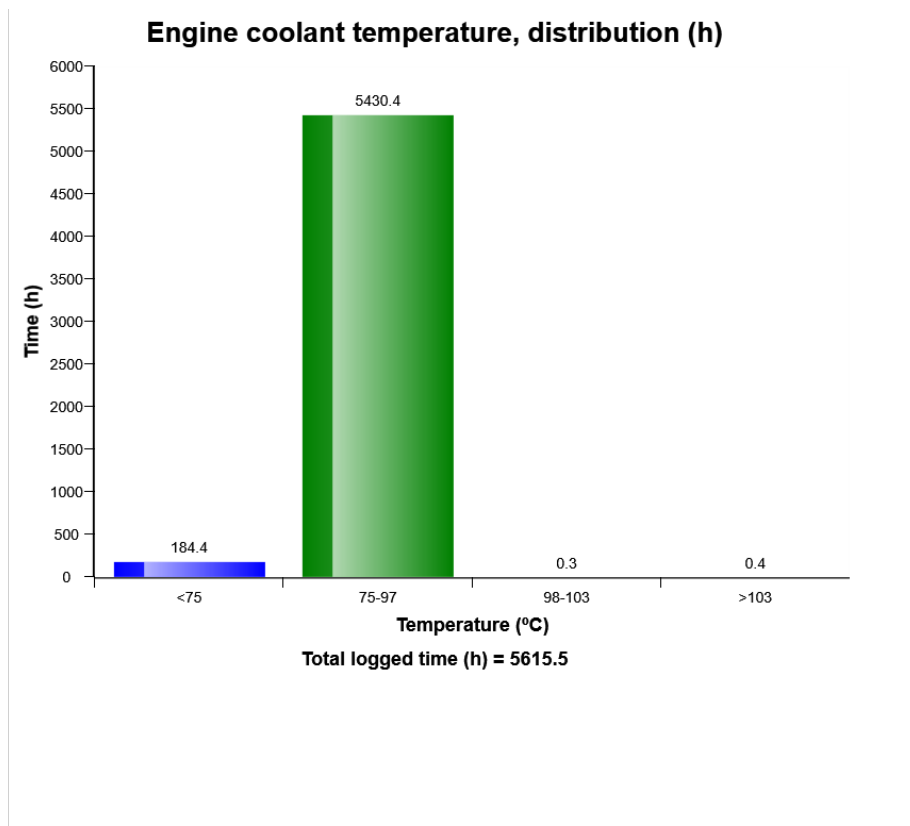
Yellow bar = High working temperature. It is normal to have some registrations in this region.

Red bar = Alarm.

Registrations in this region is not normal, running in this region may cause severe damage.



Machine model	SerialNo	Operating Hours	Reading Date
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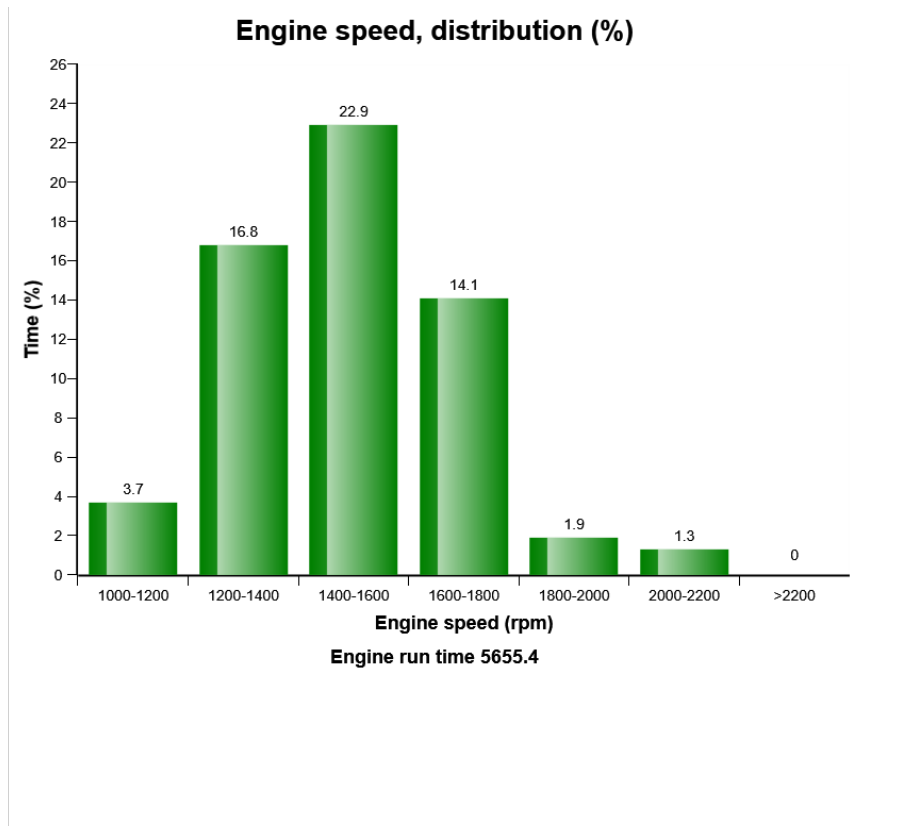
Yellow bar = High working temperature. It is normal to have some registrations in this region.

Red bar = Alarm.

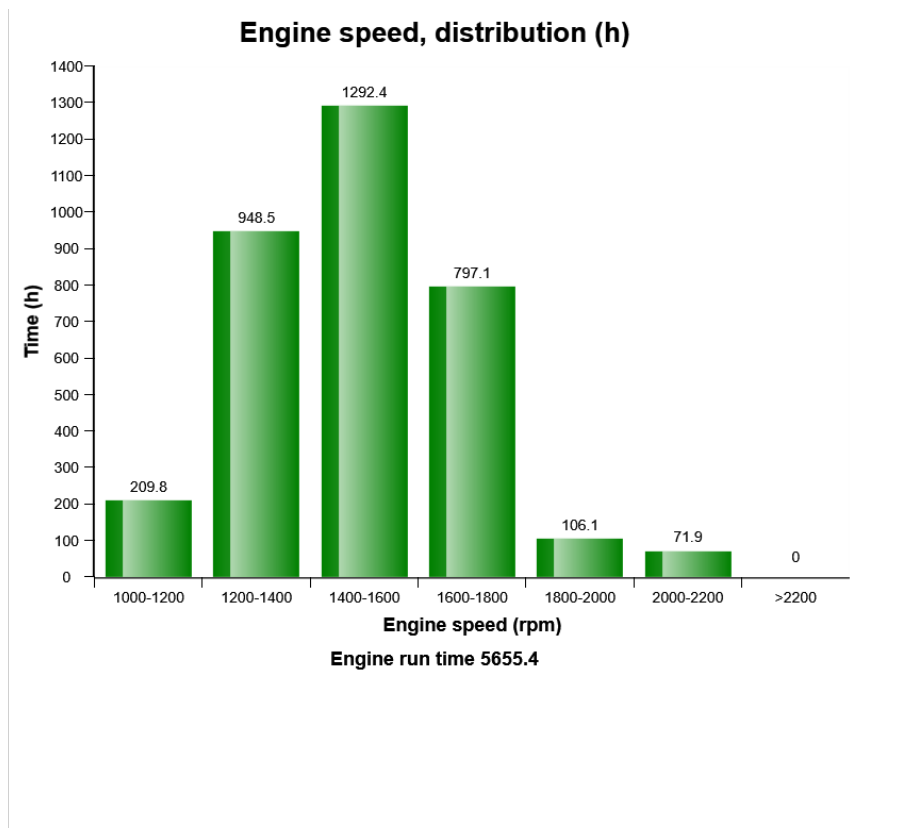
Registrations in this region is not normal, running in this region may cause severe damage.



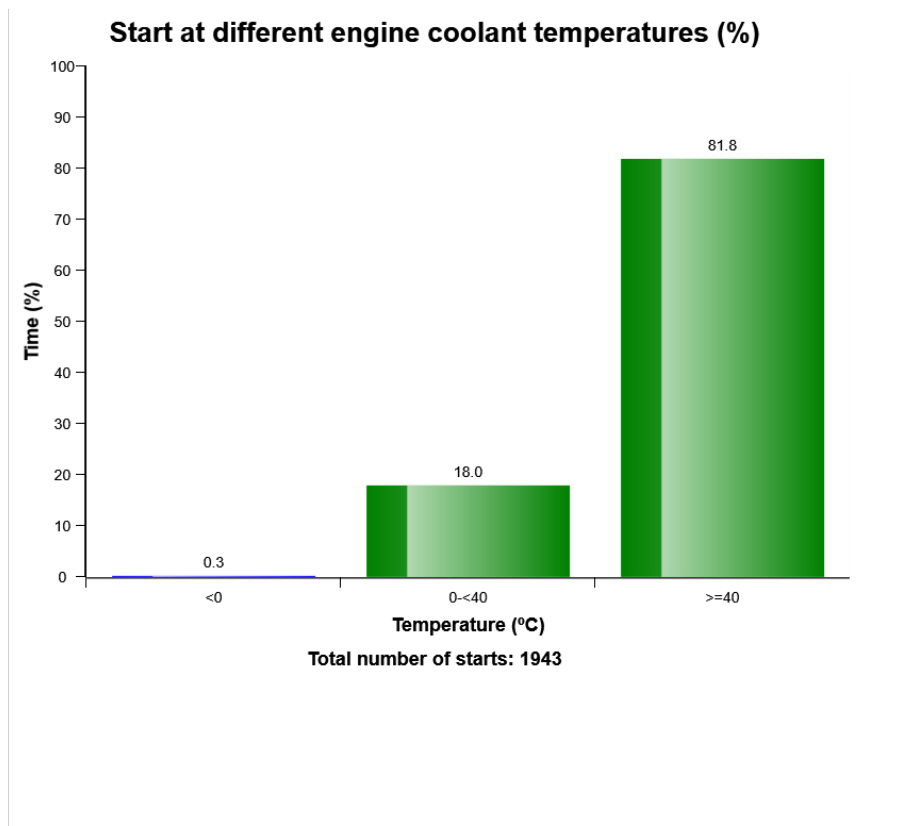
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Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



Definition:

The graph shows the distribution of engine coolant temperature, at the starting moment.

Explanation:

Y-axis: Number of engine starts

X-axis: Engine coolant temperature.

A great proportion of engine wear is due to cold starts. Try to avoid extremely cold starts. Try using an electric coolant heater.



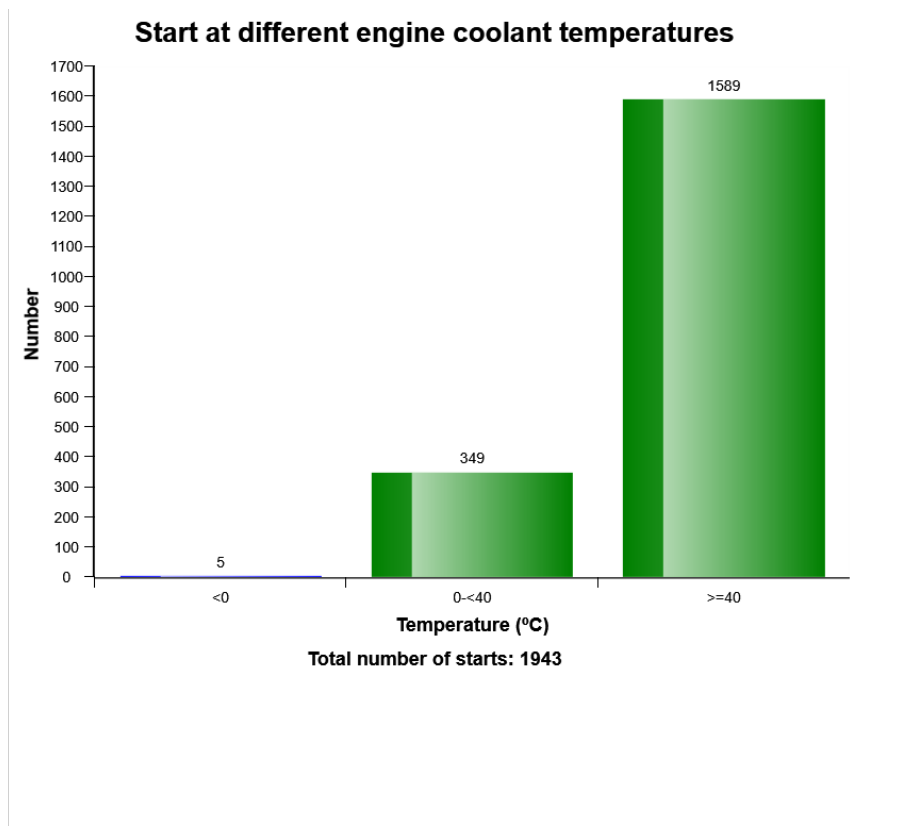
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

Under the graph the total number of engine starts is displayed.

Also see " *Number of starts / hour*" to get a complete picture of engine starting.



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A40G	341464	5655.1	17/09/2019



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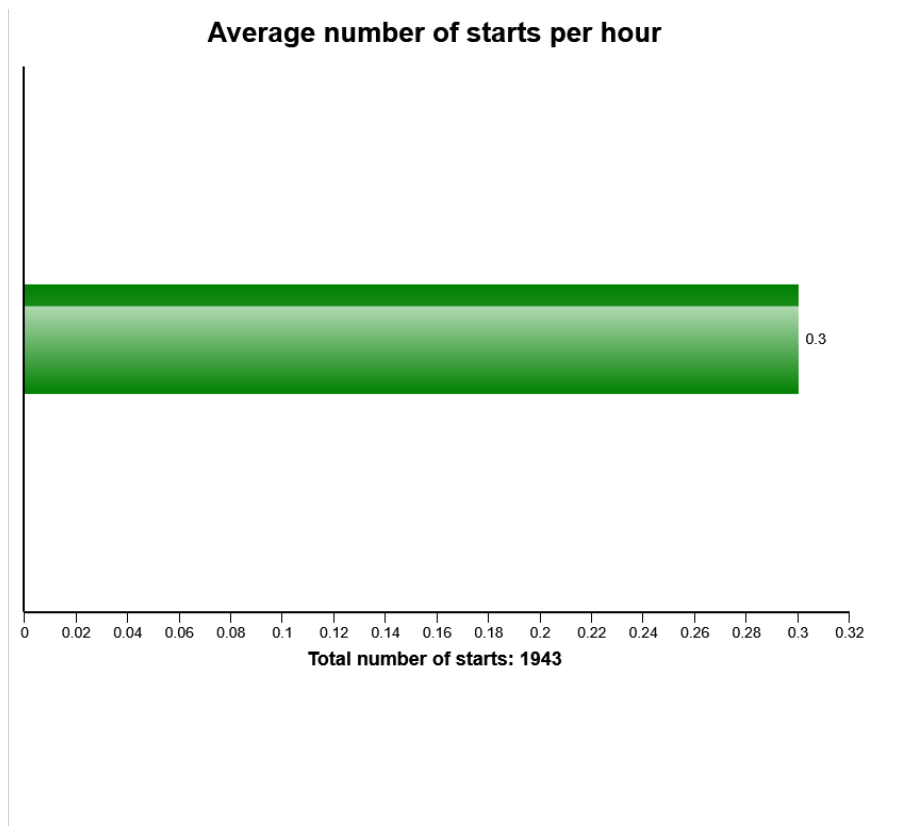
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Under the graph the total number of engine starts is displayed.

Also see " *Number of starts / hour*" to get a complete picture of engine starting.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



Definition:

The graph describes the average number of engine starts per engine running hour.

Explanation:

X-axis: Number of average starts per hour.

The actual time used for calculation, is time with engine on

If the fuel consumption is high one reason may be that the engine is not turned off often enough, perhaps machine is left idling for long periods. Check " Machine utilization".

The value can vary a lot depending on in which application the machine is used.

To see at which different temperatures engine is started see" Start at different engine temperatures."



Machine model	SerialNo	Operating Hours	Reading Date
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Green bar = Number of average starts per hour



Machine model	SerialNo	Operating Hours	Reading Date
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**High engine coolant temperature
Total number of occurrences = 11**

	Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (°C)
B	5596	2018	5	11	14	10	63	108
C	5596	2018	5	11	14	37	42	108
D	5596	2018	5	11	14	38	19	106
E	5597	2018	5	11	15	1	76	109
F	5597	2018	5	11	15	4	26	107
G	5597	2018	5	11	15	31	171	113
H	5598	2018	5	11	16	8	109	109
A	5605	2018	5	14	14	40	285	115
I	5605	2018	5	14	14	28	88	109
J	5605	2018	5	14	14	31	29	107

Definition :

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month, day, hour and minute to show when an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed.

Duration :

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Extreme value :

The extreme value column displays the most extreme value during the event.



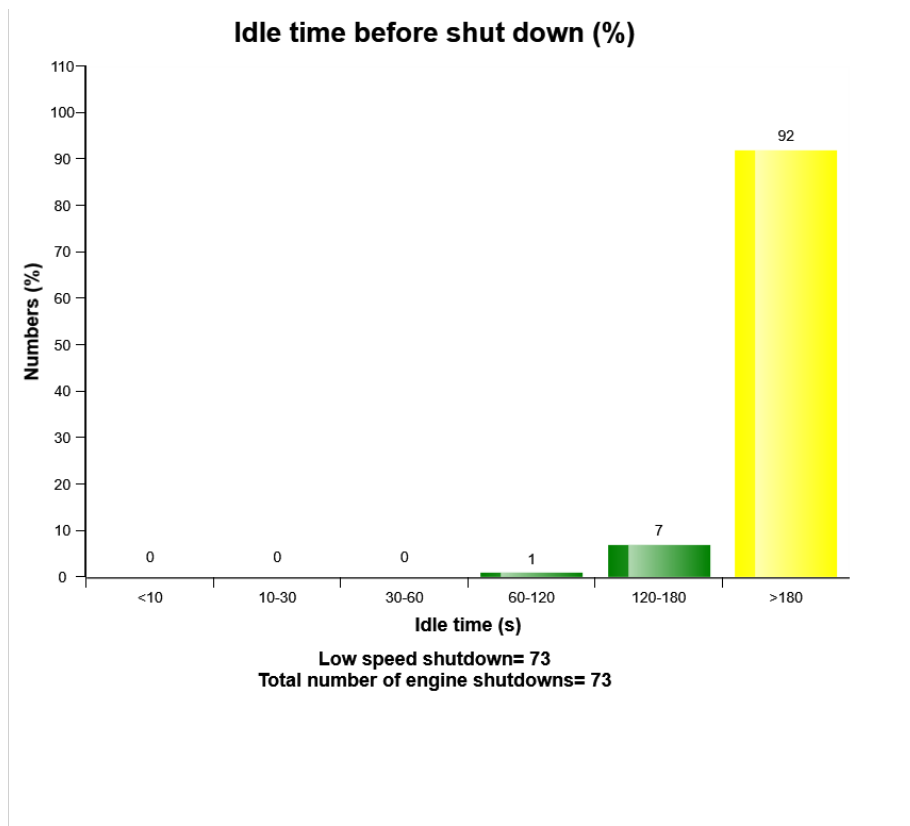
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

Criteria :

The criteria to get an registration, is that the alarm signal for high engine coolant temperature is active and that the diesel engine is running.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



Definition:

This graph shows the distribution of delayed time at low idle speed until the engine is turned off.

The delayed time distribution for each bar is shown on top of its column in percentage.

The sum of bars is 100%.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

**High engine oil temperature
Total number of occurrences = 0**

	Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (° C)
A	0	2000	0	0	0	0	0	0
B	0	2000	0	0	0	0	0	0
C	0	2000	0	0	0	0	0	0
D	0	2000	0	0	0	0	0	0
E	0	2000	0	0	0	0	0	0
F	0	2000	0	0	0	0	0	0
G	0	2000	0	0	0	0	0	0
H	0	2000	0	0	0	0	0	0
I	0	2000	0	0	0	0	0	0
J	0	2000	0	0	0	0	0	0

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Extreme value :

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Criteria :

The criteria to get an registration, is that the alarm signal for high engine oil temperature is active and that the diesel engine is running.



Machine model	SerialNo	Operating Hours	Reading Date
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minutes since the latest alarm .

Explanation:

X-axis: Number of times that the starter alarm has been activated.



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event has occurred.

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Duration :

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Criteria :

The criteria to get an registration, is that the alarm signal for air filter clogged is active, and that the diesel engine is running.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

Regeneration duration
Total number of occurrences = 30

Op hours	Year	Month	Day	Hour	Minute	Duration (min)
3256	2017	11	13	6	11	48
3256	2017	11	13	2	20	5
3669	2017	12	11	23	43	46
3820	2017	12	21	12	29	45
3933	2017	12	30	21	54	53
4006	2018	1	7	8	26	42
4006	2018	1	7	8	2	11
4007	2018	1	7	9	40	30
4127	2018	1	15	23	29	26
4128	2018	1	16	0	15	28
4628	2018	2	16	23	32	47
4891	2018	3	5	11	32	51
5011	2018	3	13	23	52	49
5512	2018	4	19	18	50	74
5532	2018	4	20	22	52	52
5539	2018	4	21	11	39	52
5546	2018	4	21	19	11	57
5553	2018	4	22	10	40	52
5559	2018	4	23	7	10	56
5564	2018	4	23	12	45	52



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Criteria :

Logging is performed when, Alarm high system voltage , is active.



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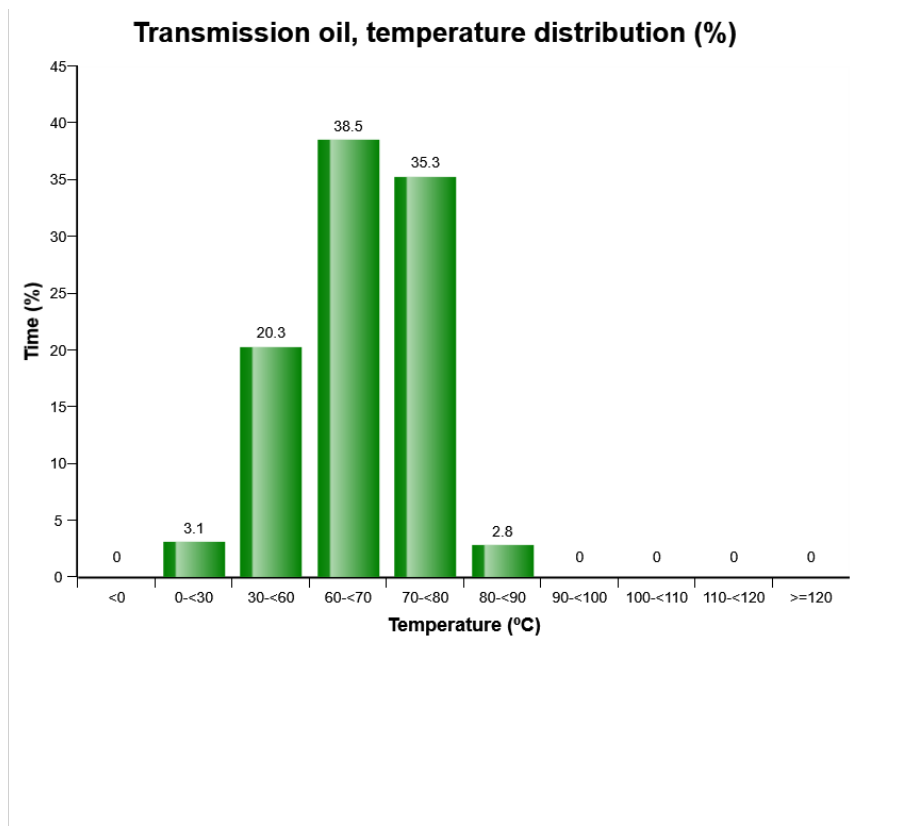
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Logging is performed when, Alarm low system voltage , is active.



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The diagram shows the transmission oil temperature in various temperature ranges. The time is displayed in the following ten temperature ranges:

<0°C Temperatures below 0°C

0 - <30°C Temperatures from 0°C until 30°C

30-<60°C Temperatures from 30°C until 60°C

60-<70°C Temperatures from 60°C until 70°C

70-<80°C Temperatures from 70°C until 80°C

80-<90°C Temperatures from 80°C until 90°C

90-<100°C Temperatures from 90°C until 100°C



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

100-<110°C Temperatures from 100°C until 110°C

110-<120°C Temperatures from 110°C until 120°C

≥120°C Temperatures over 120°C

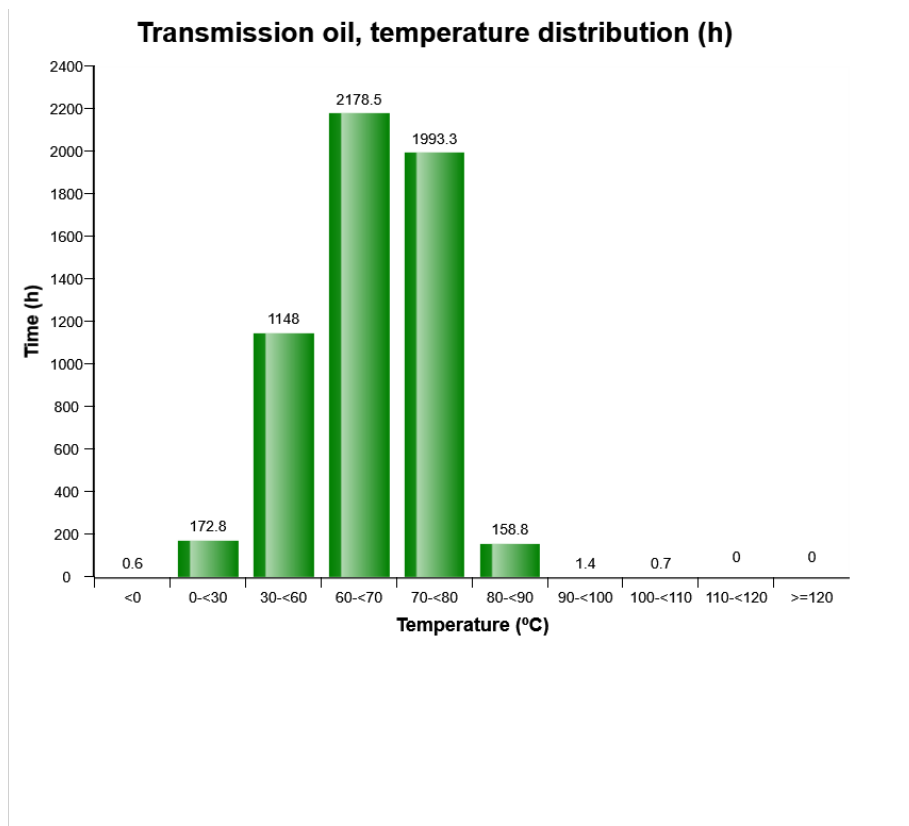
The bar that describes temperatures from 110°C until 120°C is yellow and means that the oil has begun to be overheated. Driver has been given orange central warning

The bar that describes >120°C is red and means that the oil has been overheated. Driver has been given red central warning.

Oil temperatures exceeding 110°C must be avoided since the properties of the oil are degraded



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60-<70°C Temperatures from 60°C until 70°C

70-<80°C Temperatures from 70°C until 80°C

80-<90°C Temperatures from 80°C until 90°C

90-<100°C Temperatures from 90°C until 100°C



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100-<110°C Temperatures from 100°C until 110°C

110-<120°C Temperatures from 110°C until 120°C

≥120°C Temperatures over 120°C

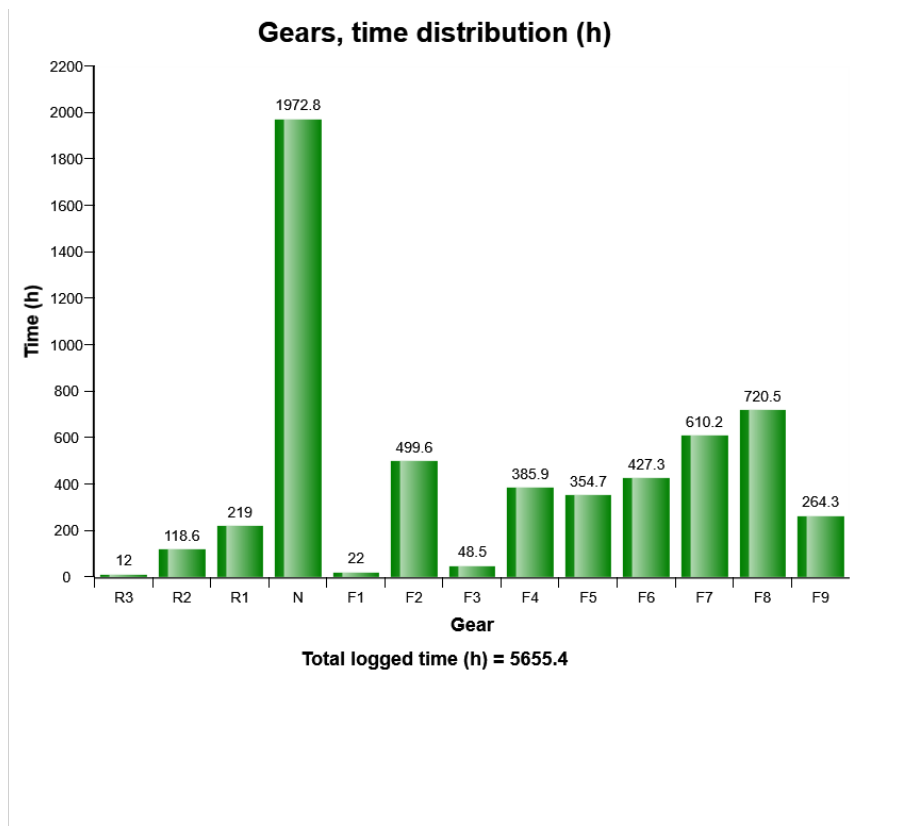
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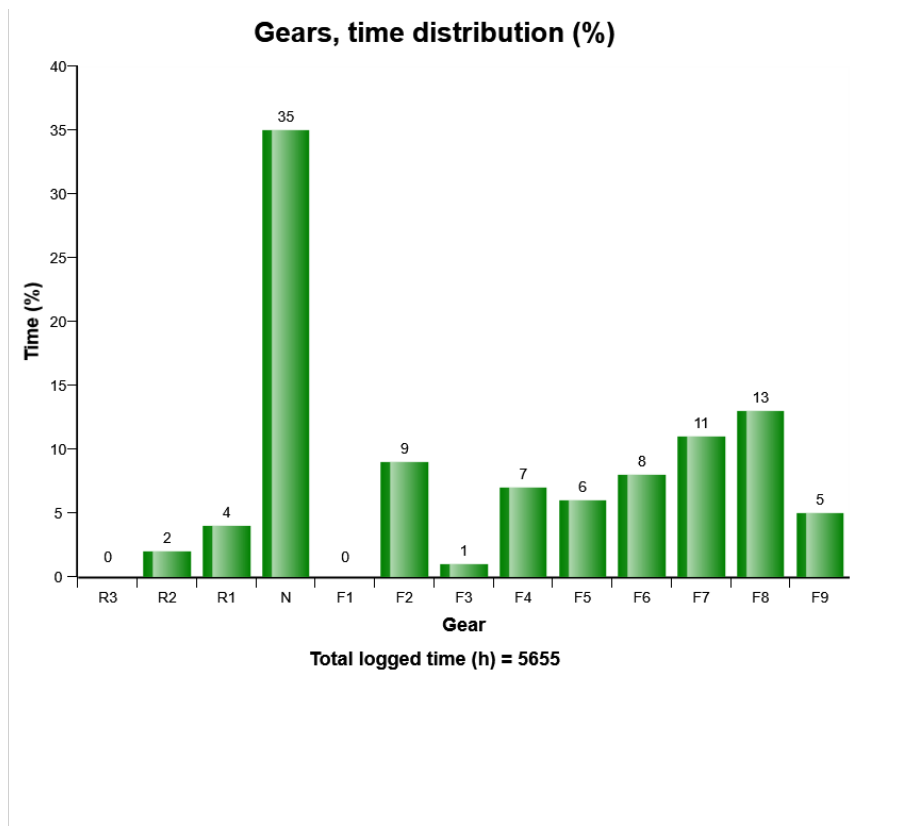


The diagram shows the time for each gear. Each bar represents a gear.

How the time is distributed between the gears depends on the operating conditions.



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The diagram shows the time for each gear. Each bar represents a gear.

How the time is distributed between the gears depends on the operating conditions.



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event has occurred.

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Duration :

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Extreme value :

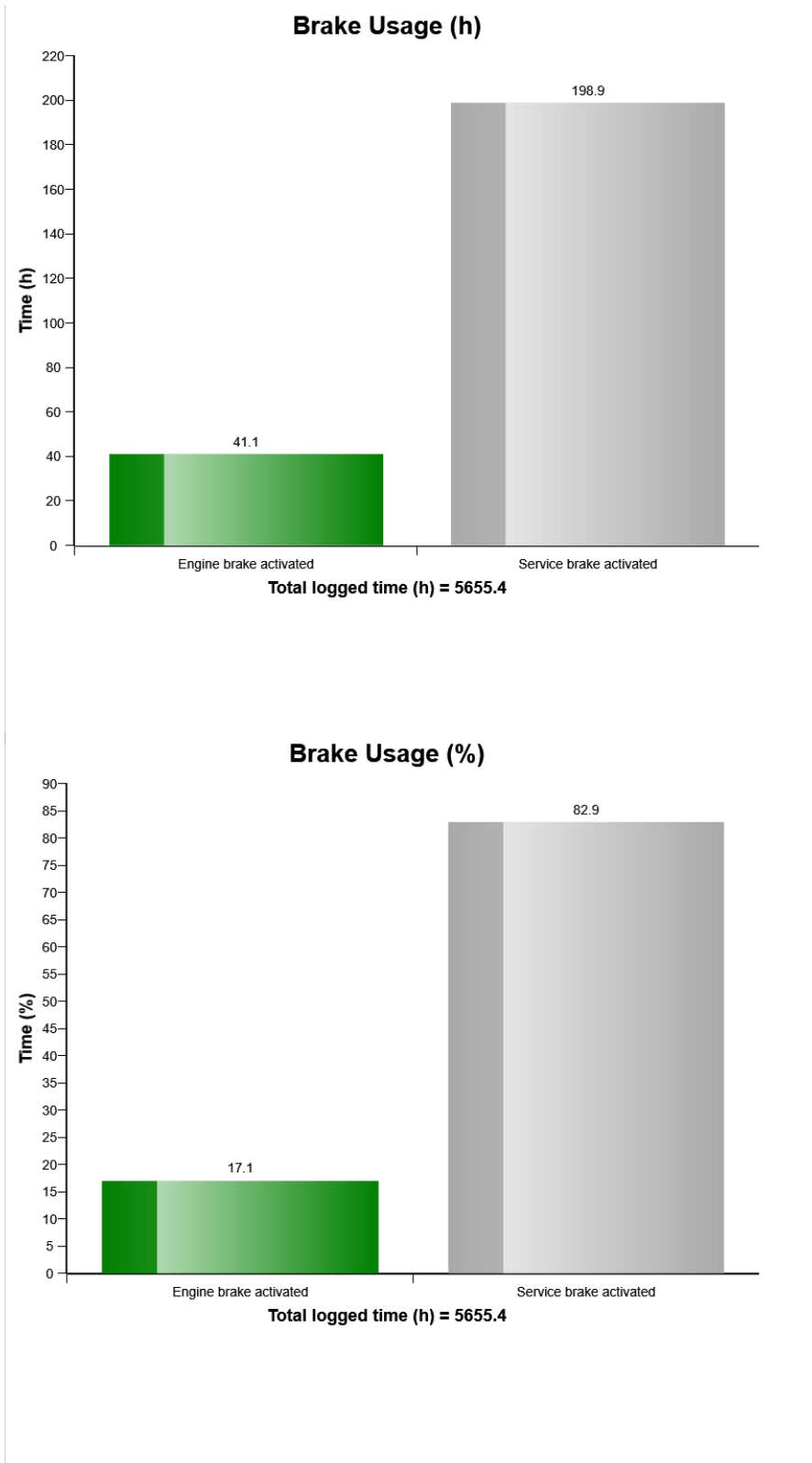
The extreme value column displays the most extreme value during the event.

Criteria :

In order for an occurrence of low transmission oil pressure to be recorded in a data point and the count to increment by 1, the transmission oil pressure state must change from "normal" or "error" to "low." The event of low transmission oil pressure will end when the status changes from "low" back to "normal" or "error."



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Machine model	SerialNo	Operating Hours	Reading Date
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Low Brake Servo Pressure
Total number of occurrences = 2

	Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (bar)
C	0	2000	0	0	0	0	0	0
D	0	2000	0	0	0	0	0	0
E	0	2000	0	0	0	0	0	0
F	0	2000	0	0	0	0	0	0
G	0	2000	0	0	0	0	0	0
H	0	2000	0	0	0	0	0	0
I	0	2000	0	0	0	0	0	0
J	0	2000	0	0	0	0	0	0
A	5173	2018	3	24	17	15	0	153
B	5651	2018	7	13	1	3	9	148

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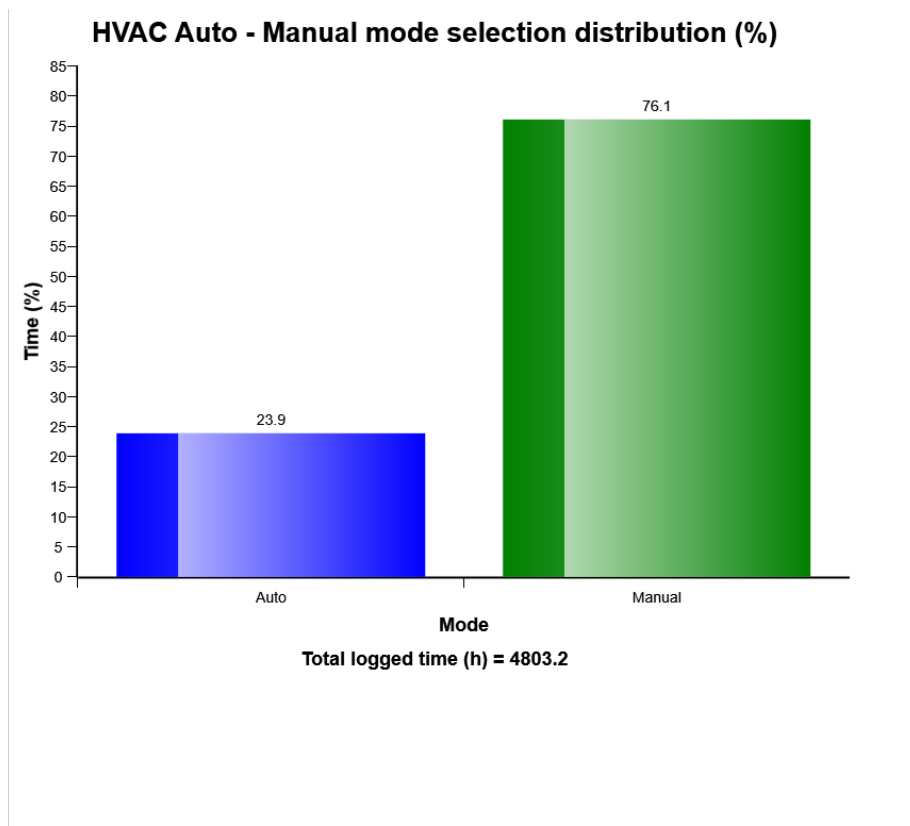
Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

Criteria :

In order for an occurrence of low brake servo pressure to be recorded in a data point and the count to increment by 1, the low brake servo pressure state must be alarm. Gear not in Neutral and engine must be on.



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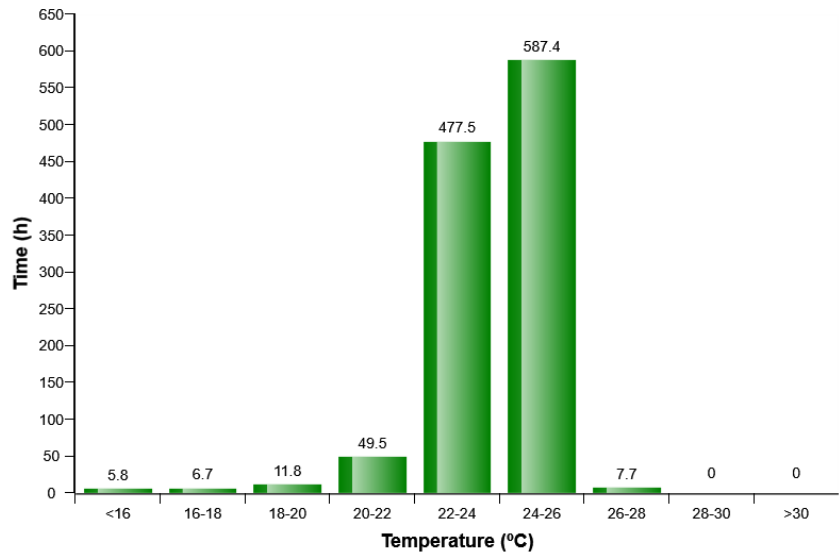
Definition:

The diagram describes auto-manual mode selection distribution of HVAC system in machine while it Works. The share of each mode compared to Total time of HVAC operation is displayed.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

HVAC air temperature setting in auto control mode distribution (h)

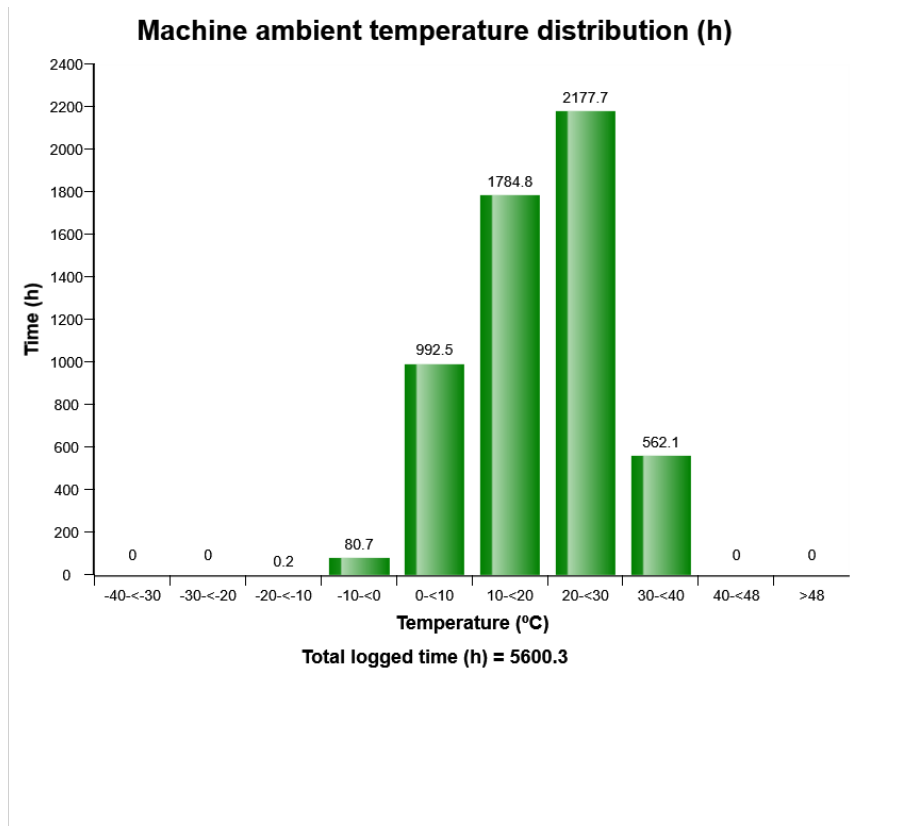


Definition:

The diagram describes air temperature setting distribution for HVAC auto control mode established by operator in Cabin



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

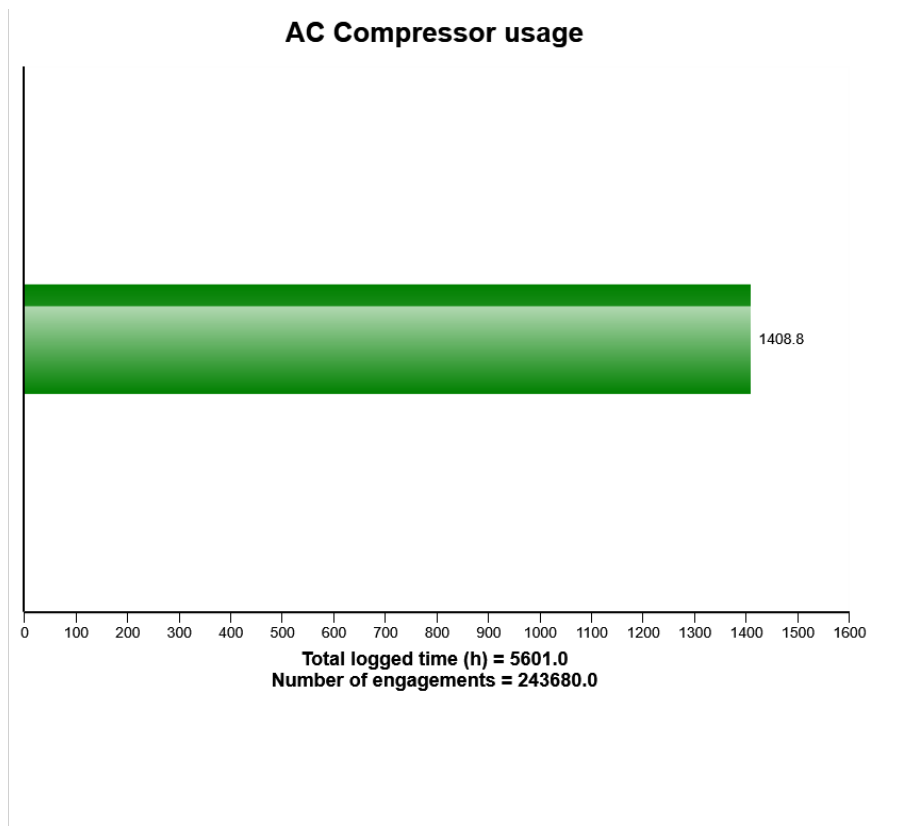


Definition:

The diagram describes ambient temperature distribution of the machine while machine operates.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



Definition:

The graph shows the total time of AC compressor engagement.

Explanation:

Green bar: Total time in hours, AC compressor has been engaged.

Under the graph the total engine running time (in hours) is displayed.

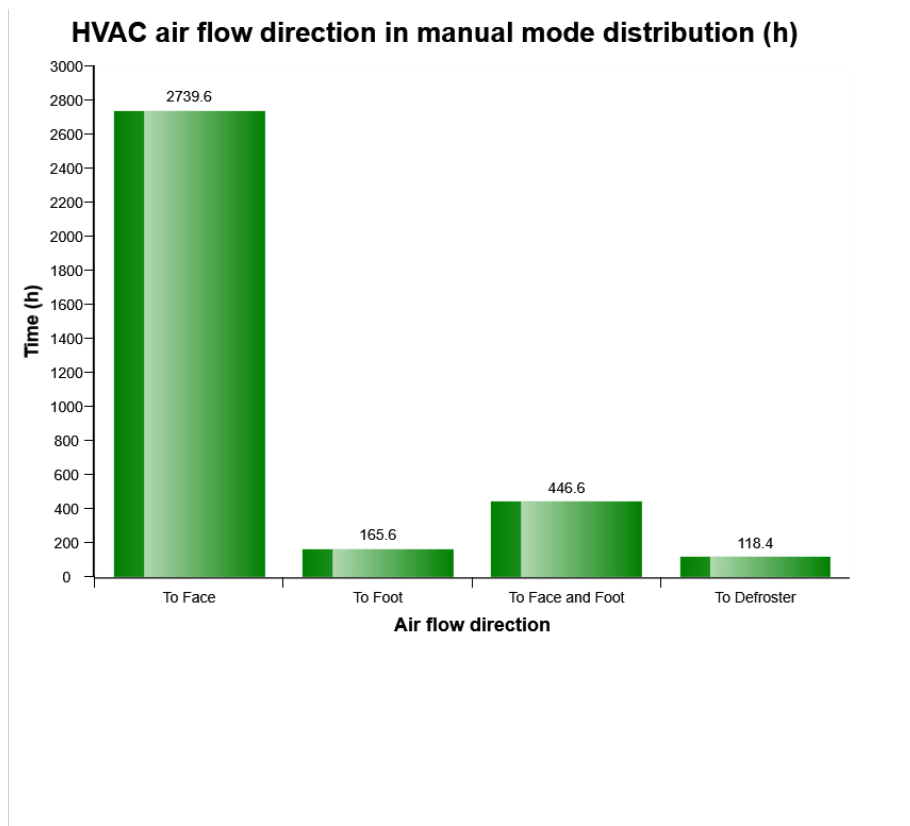
Total number of AC compressor activations is also displayed.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

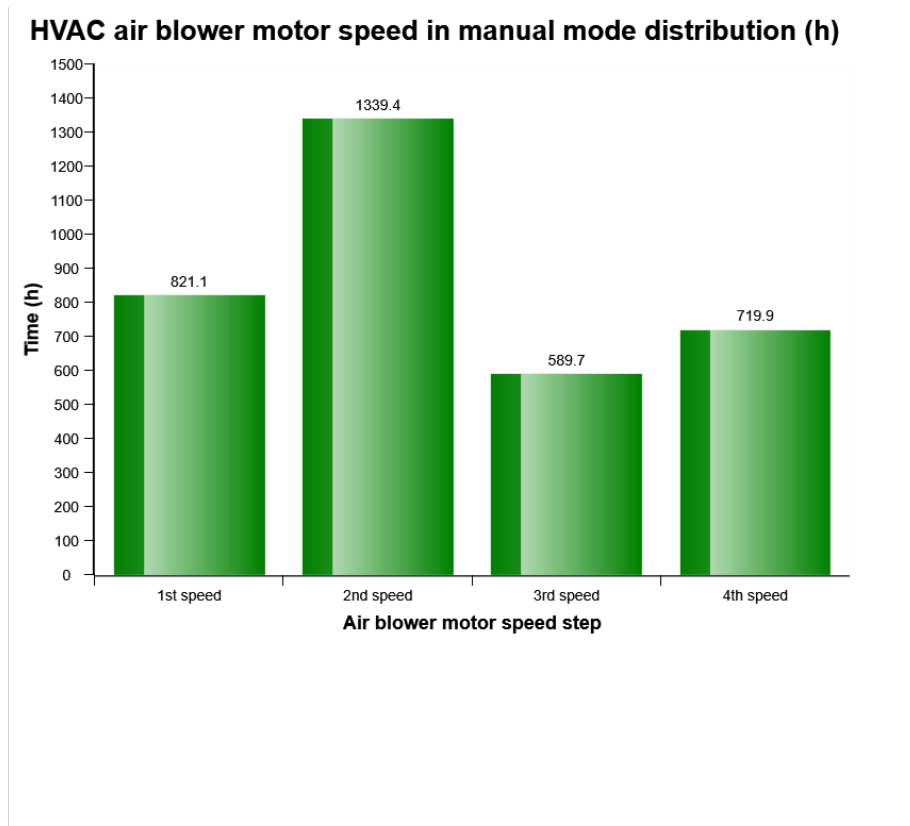


Definition:

The diagram describes air flow direction distribution for HVAC manual control mode established by operator in Cabin.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



Definition:

The diagram describes air blower motor speed distribution for HVAC manual control mode established by operator in Cabin.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

AC High Pressure
Total number of occurrences = 51

Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (° C)
5544	2018	4	19	12	26	9	27
5627	2018	5	10	15	56	35	31
5627	2018	5	10	15	38	30	31
5627	2018	5	10	15	26	69	31
5633	2018	5	11	13	19	397	32
5634	2018	5	11	14	25	367	33
5634	2018	5	11	14	8	166	32
5635	2018	5	11	14	58	107	33
5635	2018	5	11	14	34	131	33
5635	2018	5	11	14	53	20	32
5635	2018	5	11	15	28	229	33
5635	2018	5	11	15	5	40	33
5636	2018	5	11	16	3	379	33
5641	2018	5	14	12	2	44	32
5643	2018	5	14	14	21	153	35
5643	2018	5	14	14	8	24	35
5643	2018	5	14	13	42	54	34
5643	2018	5	14	14	31	13	35
5649	2018	5	15	11	2	37	28
5650	2018	5	15	12	45	225	32

Definition :

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month, day, hour and minute to show when



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed

Duration :

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value :

The extreme value column displays the most extreme value during the event.

Criteria :

Logging is performed when, High AC Pressure signal is active. Ambient temp is viewed.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed

Duration :

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value :

The extreme value column displays the most extreme value during the event.

Criteria :

Logging is performed when, Boiling protection signal is active. Ambient temp is viewed.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

AC System Cut Out Pressure
Total number of occurrences = 31

Op hours	Year	Month	Day	Hour	Minute	Duration (sec)	Extreme (° C)
4780	2001	12	12	0	41	8	25
5627	2018	5	10	15	57	8	31
5627	2018	5	10	15	39	19	31
5627	2018	5	10	15	26	60	31
5633	2018	5	11	13	23	155	32
5634	2018	5	11	14	27	28	33
5634	2018	5	11	14	9	106	32
5634	2018	5	11	14	29	131	33
5635	2018	5	11	14	59	35	33
5635	2018	5	11	14	34	114	33
5635	2018	5	11	15	29	212	33
5635	2018	5	11	15	6	28	33
5636	2018	5	11	16	8	42	33
5636	2018	5	11	16	5	109	33
5636	2018	5	11	16	4	32	32
5643	2018	5	14	14	21	32	35
5643	2018	5	14	13	42	48	34
5643	2018	5	14	14	23	29	35
5643	2018	5	14	14	31	13	35
5650	2018	5	15	12	46	180	32

Definition :

This type of table shows the latest occasions when a specific event has occurred. When a specified criteria is fulfilled a registration is made. Each table row corresponds to one occasion. Operating hours is displayed in the first column, followed by year, month, day, hour and minute to show when



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

an event has occurred.

The rows are not ordered chronological (The latest event may be in the middle).

Only one event per minute is registered.

Over the table the total number of events is displayed

Duration :

The duration of each event is shown after the timestamp of the event.

The duration is counted as long as the criteria is fulfilled.

Extreme value :

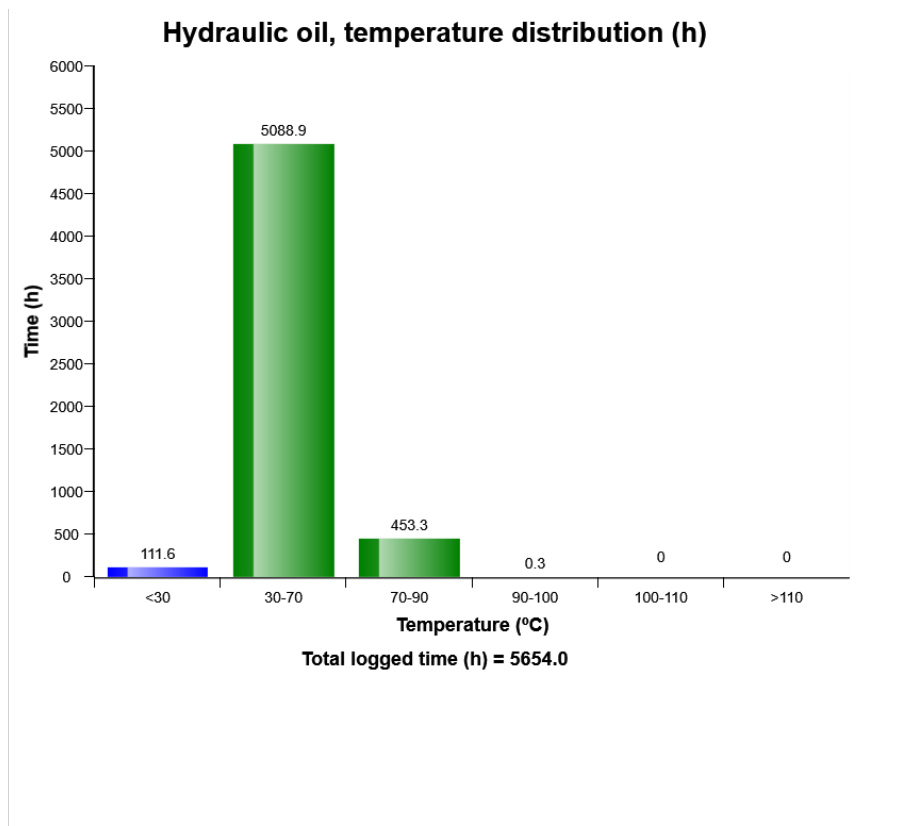
The extreme value column displays the most extreme value during the event.

Criteria :

Logging is performed when, AC cut out pressure signal is active. Ambient temp is viewed.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



Definition:

The graph shows the time distribution of the temperature, while engine running.

Explanation:

Y-axis: Time

X-axis: Temperature distribution in classes.

Blue bar = Warm-up phase.

During the engine warm-up phase, this temperature region is passed.

It is normal to have registrations in this region.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019

Green bar = Normal working temperature. The Major part of the registrations shall be in this region.

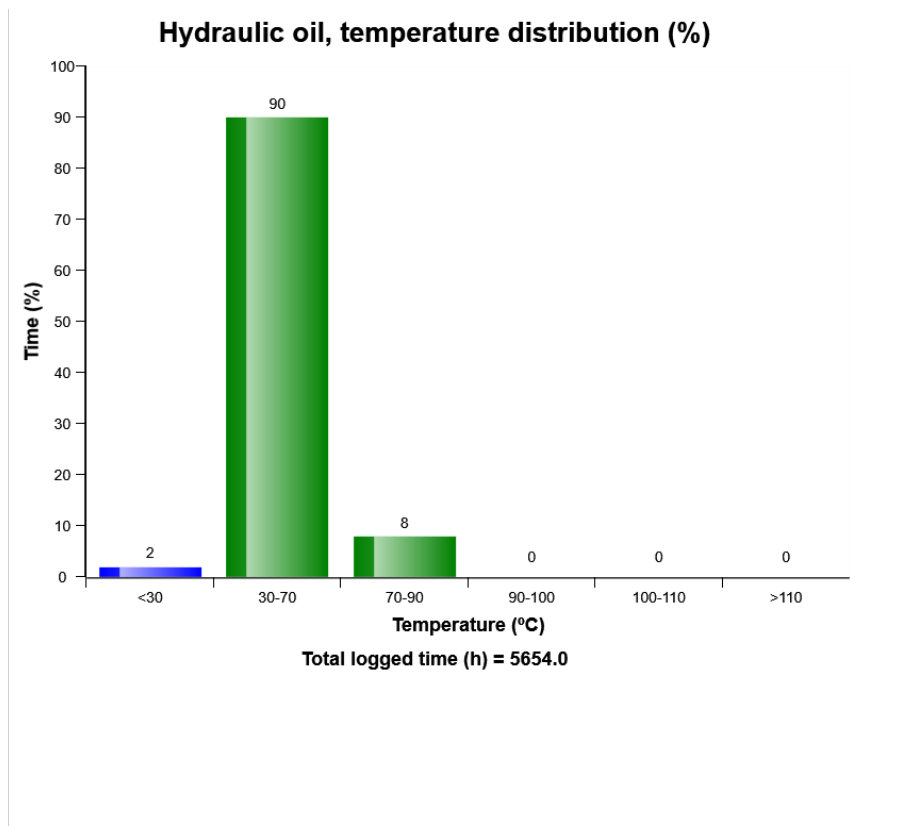
Yellow bar = High working temperature. It is normal to have some registrations in this region.

Red bar = Alarm.

Registrations in this region is not normal, running in this region may cause severe damage.



Machine model	SerialNo	Operating Hours	Reading Date
A40G	341464	5655.1	17/09/2019



Definition:

The graph shows the time distribution of the temperature, while engine running.

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A40G	341464	5655.1	17/09/2019

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